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our mission

The mission of the CEE Department is threefold:

- Provide a high quality, challenging education that encompasses breadth and depth; and prepare graduates to be proficient in both analysis and synthesis aspects of civil engineering design
- Maintain a strong research program that is recognized for excellence in major areas of civil and environmental engineering
- Provide service to the University, the civil engineering profession, and the community at large
This report highlights the accomplishments of the faculty, staff, and students of the department of Civil and Environmental Engineering at the University of Maryland during the fiscal years 2008 and 2009.

The department reached a very important milestone in 2008. We celebrated our Centennial in April of 2008 with a Centennial Symposium on Future of Civil and Environmental Engineering followed by a Centennial Gala that was attended by faculty, staff, students and alumni. It was truly an unforgettable event in which the department also recognized a number of its faculty, staff and alumni for their outstanding service and support of the department. A full story about the centennial festivities appears in another part of this report.

In 2008, Mr. Pedro Wasmer, one of the department’s distinguished alumni endowed a professorship with his generous gift. The “Pedro Wasmer” professorship is established to help outstanding junior faculty succeed in their flourishing careers. A number of other alumni also contributed to the department in a variety of ways during the period covered by this report.

Another important event during this period was the induction of Dr. Raymond Krizek, our MS alumnus in 1961 and a current member of our Board of Visitors into the A. James Clark School Innovation Hall of Fame (IHF) in October 2007. Dr. Krizek was recognized for his essential contributions to geotechnical engineering and the field of slurry mechanics, creating the standards that guide such environmentally challenging projects as marine dredging, port management, and island restoration in the Chesapeake Bay and around the world.

During this period Dr. Ahmet Aydilek was promoted to the rank of Associate Professor with tenure in fall 2007 and Dr. Donald Vannoy retired from active service and joined the rank of emeritus professors. Dr. Yunfeng Zhang joined the department as an Associate Professor of structural engineering in January 2008 and Drs. Lei Zhang and Qingbin Cui joined the department as an Assistant Professor in Fall 2008. Also during this period Drs. Hani Mahmassani, Ricardo Medina, and Glenn Moglen left the department to pursue other interests. There were several turnovers in the administrative staff as well. Ms. Rhyneta Gumbs and Mr. Oscar Velasco accepted positions in other departments at the University of Maryland and Ms. Elyse Beaulieu left the
Department for family related reasons. Ms. Brenda Brooks joined the department as the Assistant Director, Graduate Programs and Ms. Janet Alessandrini returned to the department as a Coordinator. Dr. Jimmie West joined the department as Senior Research Engineer in the Project Management program. Mr. Philip Tarnoff, the Director of the Center for Advanced Transportation Technology (CATT) stepped down from this position and assumed the Directorship of Center for Integrated Transportation Systems Management (CITSM). Mr. Thomas Jacobs was appointed as the new Director of CATT. We were saddened by untimely passing of Ms. Catherine Dolan who was a long time staff member in CATT in February 2009. Ms. Dolan worked as an instructional designer for the CITE program. Ms. Dolan’s devotion, not only to CITE, but to the overall mission of the CATT, was unwavering. She had an incredible zest for life and her dedication to her work was highly regarded by all.

On the educational front, our undergraduate and graduate programs are continuing to do well. The department’s web-based Master of Engineering program in engineering project management continues to grow and is now offering about 15 courses on-line per year. The enrolment in this program now exceeds 100. The A. James Clark School of Engineering Master of Engineering and Public Policy Program that used to be administered by the Department of Civil and Environmental Engineering is now housed in the School of
Public Policy. This was a welcome change given the increase in student enrollment in both our undergraduate program and the graduate programs that are administered in the department.

The faculty have been very active and have garnered many recognitions that are highlighted in other parts of the report. Most notable among these are Dr. Gerry Galloway’s ASCE OPAL and AAES Norm Augustine Awards and Professor Steven Gabriel’s Gilbert F. White Fellowship. Our students have been extremely active also. Our student chapter of Engineers without Borders, under the guidance of their faculty advisor, Dr. Deborah Goodings, continues to be extremely active and their outstanding work has brought them recognition and awards. The University of Maryland Solar Decathlon team placed second internationally in the 2007 competition and came first among U.S. teams.

Figures 1, 2, and 3 show the Department’s enrollment trends from fall 2001 to fall 2008. The total undergraduate enrollment and the number of female students have increased substantially in the past two years, however, the number of minority students has remained relatively flat. The graduate student enrollment on the other hand decreased in 2007 but increased again in 2008 and our preliminary information regarding the enrollment in fall 2009 indicates an upward trend. This slight decline is observed both at MS and PhD levels. While the number of minority students has remained relatively flat, the number of female students is increasing as well.

The department’s undergraduate enrollment in fall 2007 and 2008 were 305 and 343 respectively. The profiles of these students are given in Table 1. Figures 4 and 5 depict the same information. The average 25 and 75 percentile SAT scores for the freshman class were 1240 and 1395 for the class entering in fall 2007 and 1270 and 1385 for the class entering in

### TABLE 1: 2007 UNDERGRADUATE ENROLLMENT

<table>
<thead>
<tr>
<th></th>
<th>2007 Undergraduate Enrollment</th>
<th>Percentage</th>
<th>2008 Undergraduate Enrollment</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asian: U.S.</td>
<td>33</td>
<td>10.82%</td>
<td>44</td>
<td>12.83%</td>
</tr>
<tr>
<td>Hispanic: U.S.</td>
<td>15</td>
<td>4.92%</td>
<td>17</td>
<td>4.96%</td>
</tr>
<tr>
<td>Unknown: U.S.</td>
<td>24</td>
<td>7.87%</td>
<td>21</td>
<td>6.12%</td>
</tr>
<tr>
<td>White: U.S.</td>
<td>201</td>
<td>65.90%</td>
<td>229</td>
<td>66.76%</td>
</tr>
<tr>
<td>Black/African-American: U.S.</td>
<td>25</td>
<td>8.20%</td>
<td>26</td>
<td>7.58%</td>
</tr>
<tr>
<td>Foreign</td>
<td>7</td>
<td>2.30%</td>
<td>6</td>
<td>1.75%</td>
</tr>
<tr>
<td>Total</td>
<td>305</td>
<td>100%</td>
<td>343</td>
<td>100%</td>
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### TABLE 2: 2007 GRADUATE ENROLLMENT

<table>
<thead>
<tr>
<th></th>
<th>2007 Undergraduate Enrollment</th>
<th>Percentage</th>
<th>2008 Undergraduate Enrollment</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asian: U.S.</td>
<td>7</td>
<td>4.55%</td>
<td>10</td>
<td>5.65%</td>
</tr>
<tr>
<td>Hispanic: U.S.</td>
<td>6</td>
<td>3.90%</td>
<td>4</td>
<td>2.26%</td>
</tr>
<tr>
<td>Unknown: U.S.</td>
<td>9</td>
<td>5.84%</td>
<td>9</td>
<td>5.08%</td>
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<tr>
<td>White: U.S.</td>
<td>31</td>
<td>20.13%</td>
<td>45</td>
<td>25.42%</td>
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<tr>
<td>Black/African-American: U.S.</td>
<td>7</td>
<td>4.55%</td>
<td>9</td>
<td>5.08%</td>
</tr>
<tr>
<td>Foreign</td>
<td>93</td>
<td>60.39%</td>
<td>100</td>
<td>56.50%</td>
</tr>
<tr>
<td>Total</td>
<td>154</td>
<td>100%</td>
<td>177</td>
<td>100%</td>
</tr>
</tbody>
</table>
The average 25 and 75 percentile SAT scores have remained relatively flat in recent years.

The graduate enrollments in fall 2007 and 2008 were 154 and 177 respectively. The graduate student profiles for fall 2007 and 2008 are shown in Table 2. The same information is depicted in Figures 6 and 7. It should be also noted that the percentage of foreign students enrolled in our graduate programs has declined in fall 2008 compared to fall 2007 while the total enrollment has increased. This indicates that our efforts in recruiting more domestic students have been fruitful.

The quality of enrolled graduate students has remained steadily high. The trend in average GRE scores of graduate students who are enrolled in our graduate programs is shown in Figure 8. The trends in the percentage of applicants who were admitted to our graduate programs and the percentage of those who were admitted and who subsequently enrolled are shown in Figure 9. The percentages of students who were admitted in fall 2007 and 2008 have decreased compared to fall 2006 while the percentages of those who actually enrolled have increased. We continue to have a strong pool of applicants and we are competing with very high quality programs in recruiting these students.

The increase in undergraduate enrollment is reflected in the number of undergraduate degrees the department is granting (Figure 10). The undergraduate degrees granted decreased in 2007 but increased significantly in 2008. While the total number of graduate degrees in recent years has remained relatively the same, the number of PhD degrees has increased.

A number of these PhD graduates have accepted faculty positions in a variety of academic institutions.

Members of our faculty have been very active in research front as well. The new Tier I University Transportation Center funded by the Research and Innovative Technology...
Administration of the U.S. Department of Transportation, sponsored eight new research projects on various transportation related topics. The Mid-Atlantic University Transportation Center of which we are a part also sponsored 3 new research projects.

The new research awards to the department in fiscal years 2008 and 2009 were $14,006,824 and $28,378,172 respectively. Notable among these are the continuation of the CapWIN program with over $3.5 million in new funding, I-95 Corridor Coalition program management with over $4.4 million in new funding, I-95 Corridor Coalition Vehicle Probe Project with approximately $1.3 million funding, Dr. G.L. Chang’s new projects with Maryland State Highway Administration with over $1 million in new funding, Dr. Stuart Milner’s new project with the Air Force Office of Scientific Research with over $1 million in new funding and CATT new research projects sponsored by the Maryland State Highway Administration with over $1 million in new funding.

The department total research expenditure in the two year period covered by this report was over $34 million. The
The trends in department’s overall research expenditure and the research expenditure per faculty Full-Time Equivalent (FTE) during the period 2002 through 2009 are shown in Figures 11 and 12. Both of these Figures are testimonies to the extremely productive and vibrant research activities of the department.

The faculty members have also been extremely active in disseminating the results of their research through publications in archival journals, conference proceedings and research reports as well as talks and presentations in seminars, professional conferences and symposia. This report gives a complete list of the faculty’s scholarly activities during fiscal years 2008 and 2009 as well as a detailed account of the ongoing projects in this period. The faculty, staff, and students have received many awards and recognitions during the period covered in this report. The report also highlights these and other accomplishments of our faculty, staff and students.

It has been another productive two years for the department and I hope you enjoy reading about the details of our accomplishments in the pages that follow.
CHAPTER 2

Faculty and Staff

PROFESSORS
SHERIF M. AGGOUR
Geotechnical
AMDE M. AMDE
Structures
BILAL AYYUB
Structures
GREGORY BAECHER
Project Management
GANG-LEN CHANG
Transportation
ALLEN DAVIS
Environmental
DEBORAH GOODINGS
Geotechnical
ALI HAGHANI
Transportation
*Department Chairman

OLIVER HAO
Environmental
HANI MAHMASSANI
Charles Irish Chair Professor (left the department during 2007-09 period)
RICHARD MCCUEN
Water Resources
PAUL SCHONFELD
Transportation
MIROSŁAW SKIBNIEWSKI
Project Management
A. J. Clark Chair Professor
ALBA TORRENTS
Environmental

ASSOCIATE PROFESSORS
MARK AUSTIN
Structures
AHMET AYDILEK
Geotechnical
KAYE BRUBAKER
Water Resources
PETER CHANG
Structures
STEVEN GABRIEL
Project Management
DIMITRIOS GOULIAS
Geotechnical
DAVID LOVELL
Structures
GLENN MOGLIN
Water Resources
ELISE MILLER-HOOKS
Transportation

CHARLES SCHWARTZ
Geotechnical
ERIC SEAGREN
Environmental
YUNFENG ZHANG
Structures

ASSISTANT PROFESSORS
CINZIA CIRILLO
Transportation
QINGBIN CUI
Project Management
RICARDO MEDINA
Assistant Professor (left the department during 2007-09 period)
LEI ZHANG
Transportation
AFFILIATE PROFESSORS

KELLY CLIFTON
Affiliate Assistant Professor

JACQUES S. GANSLER
Affiliate Professor, School of Public Affairs Roger C. Lipitz Chair in Public Policy and Private Enterprise Director, Center for Public Policy and Private Enterprise

BRUCE GOLDEN
Affiliate Professor, Professor Robert H. Smith School of Business

EUGENIA KALNAY
Affiliate Professor, Distinguished University Professor Department of Meteorology

MATHIAS RUTH
Roy F. Weston Chair in Natural Economics Professor and Director, Center for Integrative Environmental Research Director, Environmental Policy Program Co-Director, Engineering and Public Policy Co-Director, Conservation Biology and Public Policy

EMERITUS FACULTY

FRANCIS B. BIRKNER
JAMES COLVILLE
BRUCE DONALDSON
ROBERT RAGAN
DAVID SCHELLING
YARON STERNBERG
DONALD VANNOY
MATTHEW WITCZAK

ADJUNCT FACULTY

RUSSELL E. ANDERSON
THOMAS W. BARHAM
KATHRYN BRITTON
MEHMET Y. CORAPOGLU
BRIAN CROCETTI
BRETT M. DEANE
SAUMYENDU N. GHOSH
SABRINA K. GOLDEN
MARK J. GROFF
MANOJ K. JHA
H. JOSEPH JOHNSON
STACY M. LANGSDALE
JAMES C. MYERS
KENNETH O’CONNELL
THOMAS J. POWELL
NEIL R. SCHULMAN
STEVEN G. SHAPIRO
C. CHRIS SMITH
SHAHABEDDIN TOOBAIE
JIMMIE WEST

RESEARCH FACULTY

JOHN CABLE
Executive Director, Project Management

CHUNG FU
Structures
Director, The BEST Center

GERRY GALLOWAY
Project Management

ED LINK
Project Management

STUART MILNER
Project Management

JIMMIE WEST
Project Management

CIVIL & ENVIRONMENTAL ENGINEERING STAFF

JANET ALESSANDRINI
Administrative Coordinator

ELYSE BEAULIEU
Assistant Director, Graduate Student Services (left the department during 2007-09 period)

ALFRED BITUIN
Geotechnical Laboratory Technician

BRENDA BROOKS
Assistant Director, Graduate Student Services (joined the department during 2007-09 period)

RHYNETA GUMBS
Manager (left the department during 2007-09 period)

MASOUD HAMEDI
Faculty Research Assistant

SANGEETA KAUL
Coordinator, Design and Public Relations

DAVID LEWIS
Information Technology

JO ANN MAXIM
Manager (joined the department during 2007-09 period)

CHARITY MCGEE
Administrative Assistant I

N’KOLA MORRIS
Account Clerk III

STEPHANIE PETERS
Business Manager

AL SANTOS
Director of Undergraduate Studies

LISA SCHUETZ
Director of Administrative Services

GLORIA SPINDLER
Research Coordinator

OSCAR VELASCO
Program Specialist (left the department during 2007-09 period)
BRIDGE ENGINEERING SOFTWARE AND TECHNOLOGY CENTER (BEST)

CHAULING FU
Faculty Research Assistant

CHUNG FU
Director

PATRICIA C. JOHNSON
Coordinator

I-CHENG LIN
Research Associate

CENTER FOR TECHNOLOGY AND SYSTEM MANAGEMENT

BILAL AYYUB
Director

ANDREW N. BLAIR
Research Associate

MARK KAMINSKIY
Associate Research Scientist

CENTER FOR ADVANCED TRANSPORTATION TECHNOLOGY (CATT)

RICHARD R. DYE
CHART Systems Administrator

THOMAS H. JACOBS
Director

CARLY KEANE
Communications and Marketing Specialist

MARITZA A. MONTELARA
Accounting Associate

JENNIE PREVOTS
Program Manager

STANLEY E. YOUNG
Research Engineer

CENTER FOR NETWORKING OF INFRASTRUCTURE SENSORS (CNIS)

STUART MILNER
Director

CHRISTOPHER DAVIS
Associate Director

CENTER FOR ADVANCED TRANSPORTATION TECHNOLOGY LABORATORY (CATT LAB)

JASON ELLISON
Systems Engineer

NIKOLA IVANOV
Engineer/Database Administrator

MICHAEL PACK
Director

PHILIP WEISBERG
3D Development Manager

CONSORTIUM FOR ITS TRAINING AND EDUCATION (GITHE)

KATHLEEN FRANKLE
Program Manager

DOROTHY B. PARNIAN
Instructional Design/Curriculum Development

DENISE TWISDALE
Coordinator
<table>
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<tr>
<th>COMMERCIAL VEHICLE INFORMATION SYSTEMS AND NETWORKS (CVISN)</th>
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<th>MARYLAND TRANSPORTATION TECHNOLOGY TRANSFER CENTER (MD T² CENTER)</th>
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<tr>
<td>ELLEN NEAL</td>
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<tr>
<td>JANETTE PRINCE</td>
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<td>ED STELLFOX</td>
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<tr>
<td>ALLEN DAVIS</td>
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<td>PHILIP KEARNEY</td>
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<tr>
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<tr>
<td>WANDA BYRD</td>
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<td>TYNIA CANADA</td>
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<tr>
<td>DAVID M. FONTAINE</td>
</tr>
<tr>
<td>THOMAS HENDERSON</td>
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<td>WILLIAM L. HENRY</td>
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<th>CENTER FOR INTEGRATED TRANSPORTATION SYSTEMS MANAGEMENT (CITSM)</th>
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<tr>
<td>IAN MCEWAN</td>
</tr>
<tr>
<td>RODRIGO MOSCOSO</td>
</tr>
<tr>
<td>ANDREW MUSHI</td>
</tr>
<tr>
<td>RAMIN NAFISI</td>
</tr>
<tr>
<td>MARVIN THOMAS</td>
</tr>
</tbody>
</table>

| PHIL TARNOFF  | Co-PI |
| ALI HAGHANI  | Co-PI |
| MIKE PASZKIEWICZ  | Assistant Director |
UM STUDENTS BUILD NATURAL SYSTEM TO REDUCE ANACOSTIA POLLUTION AND FLOODING

Recently, 24 students from the University of Maryland partnered with local agencies to develop a natural system that could alleviate the flooding problems and decrease the amounts of pollutants flowing into the Anacostia River Watershed by building a bioretention system at Tanglewood Park.

A bioretention system treats stormwater runoff by collecting it in shallow depressions and filtering it through plants and soil before it ultimately reaches a larger body of water. This particular system was designed to naturally filter and treat runoff water from the park’s community center, parking lot and surrounding roadways. Almost 100 feet of pipe connects the bioretention site to a nearby stream that feeds the Anacostia – providing a drainage system for the large amount of water collected from the nearby hard surfaces, helping to alleviate the flooding issue.

The students are with the UM A. James Clark School of Engineering’s chapter of Engineers Without Borders (EWB), an organization that usually sends engineering students abroad to design and build infrastructure projects in developing countries (over the past five years the Clark Schools’ EWB chapter has sent students to construct simple infrastructure projects in Thailand, Brazil, Peru, Ethiopia, and Burkina Faso). That program is now so popular that there are too many students to send them all abroad. So, two dozen or so UM students, led by undergraduates Kristen Markham and Ethan Schaler, recently turned their attention to the flooding problem much closer to home instead.

The project, which was identified by environmental planner, Carol Kennedy Hearle in the university’s Facilities Planning Department, spanned five months, and was completed at the beginning of June 2009. The Prince George’s County government provided in-kind support. The Chesapeake Bay Trust and the UM Student Government Association provided financial assistance to the project as well. Environmental Quality Resources, LLC provided the heavy gear, training and equipment operators required to complete the construction phase of the project.

DR. GERRY GALLOWAY HONORED WITH THE 2009 WARREN A. HALL MEDAL

Dr. Gerry Galloway was recognized by the Universities Council on Water Resources for his work in the water policy field. Dr. Galloway was the chief guest at the 2008 Universities Council on Water Resources (UCOWR) banquet that was held on July 8, 2009, where he was presented with the 2009 Warren A. Hall Medal.

The Universities Council on Water Resources (UCOWR) organization consists of over 90 member universities and organizations throughout the world. Each member university appoints
up to eight faculty or staff as UCOWR delegates. Others may join as individual members.

**UMD’S SOLAR HOUSE (LEAFHOUSE) REAPS HONORS**

The University of Maryland’s (UMD) solar decathlon team was awarded second place in the 2007 Solar Decathlon, and it also won the *People’s Choice Award*. In addition, the team won the *American Society of Heating, Refrigerating and Air-Conditioning Engineers “Integration for Renewables for Sustainable Living”* honor, the *National Association of Home Builders “Marketing Curb Appeal” Award* and the *AIA Potomac Valley Chapter Award* for “Advancement of the Art and Science of Architecture.”


The UMD house or “LEAFHouse,” took its design inspiration from the facets of a leaf. Civil and Environmental Engineering Department’s Professor Kaye Brubaker, together with Architecture Professors Amy Gardner and Julie Gabrielli, advised the team. The Solar Decathlon challenged 20 college and university teams to compete in 10 contests and design, build, and operate the most attractive and energy-efficient solar-powered home.

UMD also placed first or second in the following individual competitions:

* Second in architecture
* Second in market viability
* First in communications
* Second in lighting
* First in energy balance

**TOM JACOBS NAMED NEW DIRECTOR OF CATT**

Tom Jacobs was named the new Director of the *Center for Advanced Transportation Technology (CATT)*. Jacobs has over 18 years of professional experience in the areas of program and project management, traffic engineering, Intelligent Transportation Systems (ITS), and Management and Operations. He has been with the Center of Advanced Transportation Technology since 1999 and in that time has led the Capital Wireless Information Net (CapWIN) Program, overseen development of the Center for Advanced Transportation Technology Transportation Lab, provided ongoing assistance to various Maryland State Highway Administration CHART Program initiatives, and participated in numerous National Cooperative Highway Research projects.

Jacobs’ areas of interest include traffic incident management, regional information systems, systems engineering, mobile data communications, performance measures, integrated corridor management, commercial vehicle operations, distance learning, technology transfer, and planning for operations.

The CATT Director Search Committee had recommended Jacobs unanimously following an extensive nationwide search. In his capacity as the Director of CATT, he will also direct the Technology Transfer Center that is now integrated into CATT operations.

**DR. GERRY GALLOWAY APPOINTED ADVISOR TO LOUISIANA GOVERNOR**

As of summer 2008, Gerald Galloway, a Clark School Glenn L. Martin Institute professor of civil and environmental engineering and affiliate professor of public policy at the University of Maryland, has been appointed by Louisiana’s governor to serve on the Governor’s *Advisory Commission on Coastal Protection, Restoration and Conservation*.

Galloway, who served 38 years in the Army before retiring as a brigadier general, is a visiting scholar at the U.S. Army Institute for Water Resources and a consultant on water resources issues to several states and the federal government.

He has served as a consultant to numerous national and international organizations on a variety of water resources engineering and management issues and in 2007, served as president of the *American Water Resources Association*. In addition, he was a presidential appointee to both the Mississippi River Commission and the American Heritage Committee, and led the White House study of the Great Mississippi Flood of 1993.

Galloway is a former dean of the faculty and academic programs at the Industrial College of the Armed Forces and dean of the Academic Board of the United States Military Academy, where he was also professor of geography and the first head of the department of geography and environmental engineering.

**DR. GERRY GALLOWAY NAMED 2008 FELLOW-ELECT BY NAPA**

The Board of Directors of the *National Academy of Public Administration* (NAPA) recently announced the results for the new Directors and Fellows Elections. Civil and Environmental
Engineering department’s faculty member, Dr. Gerald Galloway, was named a 2008 Fellow-elect. A formal press release is forthcoming.

**DR. ALLEN DAVIS APPOINTED TO THE BAYSTAT PROGRAM SCIENTIFIC ADVISORY PANEL**

Dr. Allen Davis, has been appointed to the BayStat Program Scientific Advisory Panel. Dr. Davis was nominated by members of the BayStat Subcabinet, based on his experience and reputation in the field.

The BayStat Program was established by Governor Martin O’Malley and codified into law this past legislative session (Senate Bill 213) to measure and evaluate the State’s efforts to restore the Chesapeake and Coastal Bays, and to administer the up to $50 M annually established in the Chesapeake and Atlantic Coastal Bays 2010 Trust Fund. As called for in that legislation, a Scientific Advisory Panel is appointed by the Governor to review and advise the BayStat Subcabinet annually on the most effective use of the 2010 Trust Fund. The Panel consists of scientific and other technical experts with demonstrated expertise in the disciplines related to the protection and restoration of the Chesapeake and Coastal Bays.

**DR. RICHARD MCCUEN HONORED WITH CLARK SCHOOL OF ENGINEERING’S FACULTY SERVICE AWARD**

Dr. Richard McCuen, professor of civil and environmental engineering, is this year’s recipient of the Clark School Faculty Service Award. McCuen has contributed to the university, Clark School and his department in several ways. He is director of the Clark School honors program, with which he has been involved since the 1980s, and teaches four honors seminar sections each year. He teaches the introductory course for our Future Faculty program, which prepares students for academic careers. He is a former associate dean for undergraduate studies and has served on his department’s Committee on Undergraduate Education and its centennial celebration committee. He has been involved in high school outreach activities; in Chi Epsilon, the national honor society for civil engineering students; and in the mentoring of colleagues and students for many years. One colleague notes, “Rick’s name is synonymous with service to the department, the school and the community at large.” (Article credit: Missy Corley/ A. James Clark School)

**DR. ELISE MILLER-HOOKS NAMED SENATE CHAIR-ELECT**

Associate Professor Elise Miller-Hooks was named Chair of the University Senate, effective May 8, 2009.

The chair-elect is an ex-officio member of the Senate Executive Committee, which sets the agenda for the senate. The chair-elect also meets regularly with the provost’s Academic Planning Advisory Committee, the Facilities Council and the University Library Council, reporting back to the Senate Executive Committee.

Miller-Hooks will become chair of the senate during the 2009-2010 term, presiding over the Senate Executive Committee and the senate as a whole. The chair also represents the UM faculty at meetings with legislators in Annapolis.

“I am excited to work with our faculty, staff, and students, along with the administration in my new role as Chair-Elect of our University Senate,” said Miller-Hooks. “Through the redevelopment of East Campus and impending implementation of our new University Senate-endorsed strategic plan, among numerous other endeavors, our university will continue to be engaged in a number of activities that will significantly improve our campus environment and support our continued drive for academic excellence.

“I am honored to have this opportunity to serve the Senate and our campus in this role and to facilitate discussion and open debate as we strive to reach our goals,” she continued.

The University Senate gives faculty, staff, students, and administrators the opportunity to advise Pres. Mote on matters concerning education, budget, personnel, campus-community, long range plans, facilities, and faculty, staff and student affairs. (Article credit: Missy Corley/ A. James Clark School)

**GRADUATE STUDENTS GULSAH AKAR AND YUE LIU AWARDED 2008-09 ANN G. WILLEY DISSERTATION FELLOWSHIP**

Civil and Environmental Engineering’s graduate students Gulsah Akar and Yue Liu were awarded the 2008-09 Ann G. Wylie Dissertation Fellowship.

The Dissertation Fellowships Program is an initiative from the University of Maryland Graduate School intended to help outstanding graduate students in their final semester of writing their dissertation. The Ann G. Wylie Dissertation Fellowship is a University-wide competitive program. It is based on the quality of the student’s work, as well as, the potential contribution of their dissertation to the student’s field of research.
Senior Kevin Biringer Honored at Shipley Field

On May 11, 2008, CEE student and UM Baseball Team member Kevin Biringer was one of eight students honored in a special ceremony, led by MD Head Coach Terry Rupp. Kevin, a civil engineering major, is a pitcher for the University’s baseball team. Biringer, who is originally from Albuquerque, New Mexico, transferred from Bradley University to the University in part because of the engineering program here.

(Article credit: Christopher Blunck/ DC Sports Box)

Clark School Honors Innovator Raymond Krizek

On October 4, 2008, the Clark School inducted alumnus Raymond Krizek, M.S. ‘61, civil engineering, into the Innovation Hall of Fame in a ceremony at the Kim Engineering Building attended by campus leaders, faculty, staff, students and past Hall of Fame inductees.

Krizek was presented with a medallion commemorating his induction and a panel describing his work was revealed.

Krizek has made essential contributions to geotechnical engineering and the field of slurry mechanics, creating the standards that guide such environmentally challenging projects as marine dredging, port management, and island restoration in the Chesapeake Bay and around the world.

Past Innovation Hall of Fame inductee Angel P. Bezos, B.S. ’79, electrical engineering, was present at the ceremony and received his medallion as well. He was inducted in 1994 along with fellow alumnus Emilio A. Fernandez for many innovations for the railroad industry.

The Innovation Hall of Fame induction ceremony was followed by the Charles and Helen White Symposium where work related to Krizek’s innovations was the topic.

(Article credit: Missy Corley/ A. James Clark School)

Dr. Galloway Wins the 2008 ASCE OPAL Lifetime Achievement Award

Gerald E. Galloway, a Clark School Glenn L. Martin Institute professor of civil and environmental engineering and affiliate professor of public policy at the University of Maryland, is being recognized by the American Society of Civil Engineers (ASCE) with the organization’s “2008 Outstanding Projects and Leaders (OPAL) Lifetime Achievement Award.”

The ASCE award recognizes how Galloway’s lifetime achievements and contributions have greatly enhanced the health, safety and economy of our nation and the world. He will be presented with the honor on April 30, 2008.

According to ASCE, Galloway has spent his professional career analyzing the forces that shape and develop national policy related to water resources issues with an array of service and leadership in the private and public sectors, academia and professional organizations.

“Throughout his career, Gerry Galloway has been dedicated to our profession and the nation, and is recognized as a leader in engineering policy and education,” said ASCE President David G. Mongan, P.E., F.ASCE and Clark School alumnus. “He is an asset to the profession, and through his work on national policy, he has made a profound impact throughout the nation.”

Galloway, who served 38 years in the Army before retiring as a brigadier general, is a visiting scholar at the U.S. Army Institute for Water Resources and a consultant on water resources issues to several states and the federal government.

Galloway has served as a consultant to numerous national and international organizations on a variety of water resources engineering and management issues and in 2007, served as president of the American Water Resources Association. In addition, he was a presidential appointee to both the Mississippi River Commission and the American Heritage Committee, and helped the White House study of the Great Mississippi Flood of 1993. Galloway is a former dean of the faculty and academic programs at the Industrial College of the Armed Forces and dean of the Academic Board of the United States Military Academy, where he was also professor of geography and the first head of the department of geography and environmental engineering.

ASCE first awarded the OPAL Awards in 2000 to recognize the lifetime achievement of civil engineers whose contributions have greatly enhanced the health, safety and economy of our nation and the world. In only its ninth year, the OPAL Lifetime Achievement Awards have become the preeminent awards program for civil engineers and the principal mechanism for bringing worldwide attention to the contributions and accomplishments of the civil engineering community.

Clark School alumnus and benefactor A. James Clark was presented with the same award in 2006.

(Article credit: Missy Corley/ A. James Clark School)
DR. GREG BAECHER APPOINTED TO NASA SCIENCE COMMITTEE

Dr. Gregory Baecher, G.L. Martin Institute Professor of Engineering, has been appointed to the Planetary Protection Subcommittee of NASA’s Science Mission Directorate (SMD). The Committee, which includes representatives of industry, academe, and Government, assesses issues and risks of biological contamination for planetary missions, and for biological contamination associated with the launch and return of spacecraft in interplanetary missions and their potential failure modes.

The committee is currently focusing on the Mars Sample Return Mission. This Flagship mission calls for five spacecraft: an Earth/Mars transfer stage, a Mars orbiter, a descent module, an ascent module and an Earth re-entry vehicle. When the orbiter is in low-altitude orbit around Mars the descent module will be released and descend to the surface of Mars. On board the landing platform of the descent module will be a device to collect samples and an ascent vehicle.

Once samples of Martian soil have been collected they will be loaded on the Mars ascent vehicle. This will then be launched into orbit around the planet to rendezvous with the Earth re-entry vehicle. After the rendezvous has taken place the Earth re-entry vehicle will return to Earth on a ballistic trajectory with the Martian samples. These will be recovered and isolated in a ‘curation’ facility to prevent contamination of the samples and to allow scientists to analyze them in safety.

(News item source: NASA press release)

ALUMNUS DAVID MONGAN ELECTED ASCE PRESIDENT

David G. Mongan, B.S. ’71 and M.S. ’76, civil engineering, has been elected president of the American Society of Civil Engineers (ASCE).

He was installed as ASCE president earlier this month and will hold the organization’s highest elected office until the fall of 2008.

Mongan is president of Whitney, Bailey, Cox & Magnani, LLC, in Baltimore, an architectural, engineering and construction firm. Mongan previously served as project manager for the $80 million design/build project extending Baltimore’s Light Rail to Hunt Valley, Penn Station and Baltimore-Washington International Thurgood Marshall Airport. Additional projects under his guidance include the I-97 interchange with U.S. Route 50 and I-195 to Baltimore Washington International Thurgood Marshall Airport.

Mongan is a recipient of the ASCE Maryland Section’s Civil Engineer of the Year Award, the Engineering Society of Baltimore’s Engineer of the Year Award and the William H. Wisely American Civil Engineer Award.

ALUMNUS PEDRO WASMER ESTABLISHES PROFESSORSHIP

Pedro Wasmer, B.S. ’62, civil engineering, and a Clark School Board of Visitors member, has made a gift of $500,000 to the Department of Civil Engineering to establish an endowed professorship in that department.

“The Pedro Wasmer endowed professorship will help the department tremendously in recruiting bright young faculty scholars,” said civil engineering Chair Ali Haghani. “It will provide resources for supporting these new faculty members in building a strong research program in the early years of their careers.”

Wasmber said he was inspired to give by the encouragement he received while a student here.

“Civil engineering at Maryland afforded me a very civil education,” he said. “I was able to learn about architecture, history, economics and politics. I was very satisfied with the results of my efforts, and have always appreciated the freedom given me by the dean and my professors.”

FORMER EWB-UMCP STUDENT PRESIDENT IN CHARGE OF RELIEF OPERATIONS IN PAKISTAN

Michelle Neukirchen, the second student president of EWB-UMCP (2004-2005) and a 2005 BSCE graduate, took a two year assignment in 2005 with Catholic Relief Services (CRS), working to supply water and sanitation to 100 villages in the areas of northern Pakistan devastated by the 2005 earthquake. She is now in charge of the CRS operations for all Pakistan.
Growing Older, Feeling Revived
CEE Celebrates 100 Years

The Department of Civil and Environmental Engineering (CEE) stands on a solid foundation of growth and achievement. And, in April 2008, the department celebrated a significant milestone – its 100th anniversary. It was a long road of celebratory activities leading to the final Centennial Gala that was shared by the department’s alumni, corporate partners, faculty, staff, and students alike.

CEE was supported in this mega-venture by its illustrious alumni, Mr. A. James Clark, and by corporate partners like Whiting-Turner, Clark Construction, Whitney, Bailey, Cox and Magnani, Forrester Construction, Greenhorne & O’Mara, Vika, and Sigma Engineering. Our distinguished alumni Mr. A. James Clark, Mr. Charles Irish, Sr., Mr. Richard Reed, and Mr. Dave Mongan attended the Centennial Gala.

The preparations for this celebration had begun almost a year ago. We recognized then that this event will be a time of celebration and remembrance for our faculty, staff, students, and most importantly our alumni. CEE had planned to honor this date in a variety of ways, which included the publication of a commemorative book, a symposium, and gala scheduled for April 5, 2008.

Book: In honor of the anniversary, CEE published a centennial book Reflecting on Our Past, which highlights the department’s first 100 years with photos and personal alumni anecdotes spanning the years. “It’s sort of our 100-year yearbook,” says CEE’s Dr. Richard McCuen, the book’s editor. “When you graduate you receive a yearbook. Well, this yearbook will enable individuals to look over time to the period when they were at the university.”

And, there was much to be remembered and acknowledged. According to McCuen, CEE’s illustrious alumni include Harry Clifton “Curly” Byrd, former president of the university, and A. James Clark, for which the Clark School is named. There have been 131 faculty members and instructors teaching within the department over the last 100 years. “Three of them were deans,” says McCuen, “and two of them taught for 38 years.”
The picture-laden book also provides readers with a glimpse of the people and events that have made CEE’s 100 years so remarkable and memorable. It went on sale a few days before the Centennial Gala, and has been well-received by all who have sampled it. Everyone is encouraged to procure their copies by ordering through the CEE website, or by calling the CEE office (301 405 7768).

Symposium: CEE also hosted a symposium titled “The Future of Civil Engineering” on April 5, 2008. This was a day of discussion about the future of civil engineering education and professional practice. At the time of planning this event, centennial committee chair Dr. Richard McCuen remarked, “We’re looking forward to having many alumnae attend and participate in the discussions.”

Special guest speakers for the event included Donald Boesch, president of the University of Maryland Center for Environmental Studies, who spoke on “Building in the Future: Living with the Environment,” Richard Lawrie of Lawrie and Associates, who spoke on “21st Century Design Challenges;” Dr. Lewis Link, director of the Katrina Interagency Performance Evaluation Task Force; Dr. Miroslaw Skibniewski as moderator, William Calhoun, executive vice president of Clark Construction; David Forrester, president and CEO of Forrester Construction; Robert L. Mitchell, chairman and CEO of Mitchell & Best Homebuilders; and Richard L. Vogel, senior vice president of Whiting-Turner Contracting Co.

Centennial Gala: The activities began with a formal reception that led to the Centennial Gala held at The UMUC Marriott Inn & Conference Center. Strains of classical music played by a quartet welcomed the 200 plus group of invitees that included CEE alumni, students, faculty, staff and corporate friends. The welcome remarks by department chair, Dr. Ali Haghani, began an enjoyable evening that only got better with time. Dr. Gregory Baecher, member of the centennial committee, introduced the distinguished guests and alumni attending the event. After dinner commenced, centennial committee member Dr. Gerald Galloway introduced the guest speaker,
General Robert Van Antwerp (commander of the U.S. Army Corps of Engineers). The General spoke on “Maintaining America’s Infrastructure.” With his comfortable style and amiable discourse, General Van Antwerp turned out to be quite a crowd favorite. The department honored 14 members of the CEE family with the specially designed and commemorative Centennial Medal. These were C. Rebecca Chavarria, A. James Clark, James Colville, Ben Dyer (posthumously), Daniel Garber, Charles Irish, Sr., Margaret Keimig, Raymond J. Krizek, David Mongan, Robert Ragan, Richard Reed, Pedro Wasmer, and Mariko Wright. The Centennial Medal was also awarded to State Highway Administration (SHA), represented by Neil Pederson.

The Gala was honored by the presence of two of CEE’s oldest graduates, Mr. Stan Lore (Class of 1934) and Mr. Phillip Cooper (Class of 1931). Mr. Lore drove all the way from Pennsylvania to attend the symposium and the Gala. They both were very gracious to join their alma mater in its Centennial Celebration.

The closing remarks by Dr. Haghani brought the evening to a resounding culmination. There were a lot of positive feedbacks received through various attendees of the CEE Centennial Celebration. Many people were greatly impressed by the organization and the effort of the department to organize the events. Others were thrilled with the centennial book, especially those who are featured in it. Our alumnus and benefactor, Mr. A. James Clark thanked the department for his section in the “wonderful” centennial book and remarked that the Gala was “great” as well. Fellow Centennial Medal recipient, Ms. Rebecca (Becky) Chavarria commented that she was “really impressed with the entire event...” Mr. David Forrester, CEO of Forrester Construction (one of the CEE Centennial Celebration’s corporate partners) was happy to be a part of the celebration and sent best wishes for the next 100 years! And finally, CEE alumnus and benefactor Mr. Richard Reed thought that the department should “take great pride in the Centennial Celebration...and that the gala, symposium, and especially the presentation by CEE faculty member Dr. Lewis (Ed) Link was very successful.”
CHAPTER 4

Faculty & Staff Honors

2008

GREGORY BAECHER
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING’S FACULTY TEACHING AWARD

GERALD GALLOWAY
AAES NORM AUGUSTINE AWARD FOR COMMUNICATING EXCITEMENT OF ENGINEERING
ASCE OPAL AWARD FOR LIFETIME SERVICE

SANGEETA KAUL
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING’S STAFF SERVICE AWARD

DAVID LOVELL
KEYSTONE FACULTY MEMBER, CLARK SCHOOL OF ENGINEERING

MICHAEL PACK
CHARLEY V. WOOTAN AWARD FOR OUTSTANDING PAPER IN POLICY AND ORGANIZATION

ALBA TORRENTS
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING’S FACULTY SERVICE AWARD

2007

BILAL AYYUB
THE U.S. ARMY CORPS OF ENGINEERS, THE ARMY COMMANDER’S AWARD FOR PUBLIC SERVICE BY LG ROBERT L. VAN ANTWERP, CHIEF OF ENGINEERS, HURRICANE RISK ANALYSIS

BILAL AYYUB
APPOINTED TO THE COMMITTEE FOR ASSESSMENT OF THE BUREAU OF RECLAMATION’S SECURITY PROGRAM, BOARD ON INFRASTRUCTURE & THE CONSTR. ENVIRON., NATIONAL RES.

RICHARD MCCUEN
A. JAMES CLARK SCHOOL OF ENGINEERING’S SERVICE AWARD

GREGORY BAECHER
COMMANDER’S MEDAL FOR PUBLIC SERVICE, U.S. ARMY CORPS OF ENGINEERS
SUJAL BISTA  
CHARLEY V. WOOTAN AWARD

CHUNG FU  
HIGHLY COMMENDABLE PAPER AWARD: THE FIRST INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN CONCRETE TECHNOLOGY

STEVEN GABRIEL  
VISITING SCHOLAR, LOGISTICS MANAGEMENT INSTITUTE (MCCLEAN, VIRGINIA)

DEBORAH GOODINGS  
UNIVERSITY AWARD FOR OUTSTANDING FACULTY ADVISOR OF A STUDENT ORGANIZATION

DIMITRIOS GOULIAS  
PAPER AWARD AT THE FIRST INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN CONCRETE TECHNOLOGY, ARLINGTON, VA.

LEWIS ED LINK  
MCGRAW-HILL ENGINEERING NEWS – RECORD AWARD OF EXCELLENCE
DEPARTMENT OF ARMY OUTSTANDING CIVILIAN SERVICE MEDAL

ELISE MILLER-HOOKS  
THE FRED BURGGRAF AWARD: FOR EXCELLENCE IN TRANSPORT, RESEARCH FROM THE TRANSPORT RES. BOARD OF THE NATIONAL ACADEMIES OF SCIENCE AND ENGINEERING

GLENN MOGLLEN  
SELECTED AS MEMBER OF ACADEMY FOR EXCELLENCE IN TEACHING AND LEARNING

MIROSŁAW SKIBNIEWSKI  
RICHARD L. TUCKER-YUKIO HASEGAWA AWARD, INTERNAT’L ASSOC. FOR AUTOMATION AND ROBOTICS IN CONSTRUCTION

MIROSŁAW SKIBNIEWSKI  
TAN SWAN BENGB ENDOWED PROFESSORSHIP (HON.), NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE

YUNFENG ZHANG  
BEST PAPER AWARD (FROM ASCE JOURNAL OF COMPUTING IN CIVIL ENGINEERING)
CHAPTER 5
Student Honors/Scholarships

2009

KATIE JEAN O’MARA
DEPARTMENT OF CEE OUTSTANDING SENIOR AWARD

JAMES MCGILLIN MACE
WOODWARD-CLYDE CONSULTANTS AWARD

PETER JUDSON LARUE
CHI EPSILON OUTSTANDING SENIOR AWARD

KRISTEN SARA MARKHAM
BECHTEL AWARD

KANA MATSUI
ROBERT L. MORRIS AWARD FOR ENVIRONMENTAL LEADERSHIP

IANINA JMOURKO
DEPARTMENT OF CEE CHAIR’S AWARD

KEVIN J. SMITH
ASCE OUTSTANDING SENIOR AWARD

2008

ABBAS MOASEL AFSHAR
I-95 CORRIDOR COALITION FELLOWSHIP

ALYSSA APOLONIO
ABC METRO WASHINGTON SCHOLARSHIP

MOHAMMAD EBRAIM BADKOUBI
ENGINEERING SCHOLARSHIP

JASON BECKER
BEN DYER MEMORIAL SCHOLARSHIP

CHARLES A. IRISH SCHOLARSHIP IN ENGINEERING

KEVIN BIRINGER
WHITING-TURNER SCHOLARSHIP IN CONSTRUCTION MANAGEMENT

NASIM SADAT MOGHADDASI BONAB
A. JAMES CLARK FELLOWSHIP

TIMOTHY BRINER
A. JAMES CLARK SCHOLARS

KRISTA BUJANOWSKI
A. JAMES CLARK SCHOLARS

CHARLES CAMPBELL
CLARK CORPORATE PARTNERS SCHOLARSHIP

J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

LICHUN CHEN
I-95 CORRIDOR COALITION FELLOWSHIP

JOSH SIDNEY CLAYTON
CHI EPSILON OUTSTANDING SENIOR AWARD

ALAN CRESSWELL COLEMAN
DEPARTMENT OF CEE CHAIRMAN’S AWARD

ROSEMARY DASON
A. JAMES CLARK SCHOLARSHIP

BRANDON DAVIS
RUSSEL B. ALLEN SCHOLARSHIP

ALVIN L. AUBINOE SCHOLARSHIP

CAROLE DELION
THE RICHARD AND ELEANOR REED SCHOLARSHIP FUND

FRANCES DOZIER
DAN WALDO SCHOLARSHIP

JAZALYN DUKES
CIVIL AND ENVIRONMENTAL ENGINEERING FELLOWSHIP

EDNA EZZELL
A. JAMES CLARK SCHOLARSHIP

J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

HINMAN CEOS SCHOLARSHIP

KEHAT FALIK
DELLBURT A. KIDWELL, SR. MEMORIAL SCHOLARSHIP
BRADFORD FALLON
WHITING-TURNER SCHOLARSHIP IN CONSTRUCTION MANAGEMENT

GEORGE M. KING SCHOLARSHIP

MICHAEL FELDMAN
A. JAMES CLARK SCHOLARSHIP

AFCEA BETHESDA MARYLAND CHAPTER

ROBIN FISH
J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

DANE FRIEDMAN
A. JAMES CLARK SCHOLARSHIP

SCOTT GILSON
CLARK CORPORATE PARTNERS SCHOLARSHIP

KRISTIN GILROY
BEN DYER CIVIL ENGINEERING CHAIR FELLOWSHIP

LANCE GUTIN
TOW H. MOY CIVIL ENGINEERING SCHOLARSHIP

GABRIELA NINO DE GUZMAN
WATER RESOURCE FELLOWSHIP

KEVIN HARNISH
J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

EUGENE F. BALDI ENDOWED SCHOLARSHIP

THOMAS HERER
THE RICHARD AND ELEANOR REED SCHOLARSHIP FUND

JILL HOLIAN
AMBASSADOR SCHOLARSHIP

THE RICHARD AND ELEANOR REED SCHOLARSHIP FUND

BRIAN HUANG
A. JAMES CLARK SCHOLARSHIP

DAHAE HWANG
A. JAMES CLARK FELLOWSHIP

EAKALAK INTARAKOSIT
D.C. WASA FELLOWSHIP

ANDREA JIMENEZ
A. JAMES CLARK SCHOLARSHIP

KYLE JOHN
CLARK CORPORATE PARTNERS SCHOLARSHIP

IANINA JMOURKO
DELLBURT A. KIDWELL, S. MEMORIAL SCHOLARSHIP

A. JAMES CLARK FELLOWSHIP

ABC METRO WASHINGTON SCHOLARSHIP

SAHAND KARIMI
CIVIL AND ENVIRONMENTAL ENGINEERING FELLOWSHIP

JEFFREY KRUMMEL
A. JAMES CLARK SCHOLARSHIP

J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

ANDREW LAL
CLARK ENTERPRISES SCHOLARSHIP

PETER LARUE
THE MARYLAND SECTION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) FOUNDATION SCHOLARSHIP

JOHN S. LONG SCHOLARSHIP

ASCE OUTSTANDING SENIOR AWARD

RYAN LIAENROTH
CLARK CORPORATE PARTNERS SCHOLARSHIP

ALEXANDER LE
A. JAMES CLARK SCHOLARSHIP

J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

PROFESSOR CONRAD P. HEINS, JR. ENDOWED SCHOLARSHIP IN STRUCTURAL ENGINEERING

ALAN LESLIE
WATER RESOURCE FELLOWSHIP

MEGAN LEON
THOMAS AND BARBARA CRANE SCHOLARSHIP IN CIVIL ENGINEERING

JOHN F. MILLER SCHOLARSHIP

RUI LI
A. JAMES CLARK FELLOWSHIP

ZHEN LI
CIVIL AND ENVIRONMENTAL ENGINEERING FELLOWSHIP

STEVEN LOSIN
CLARK CORPORATE PARTNERS SCHOLARSHIP

J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

YANG LU
A. JAMES CLARK FELLOWSHIP

JAMES MACE
ABC METRO WASHINGTON SCHOLARSHIP

THE COUNTY OF ENGINEERS ASSOCIATION OF MARYLAND ROGER H. WILLARD SCHOLARSHIP FUND

KANA MATSUI
CIVIL AND ENVIRONMENTAL ENGINEERING FELLOWSHIP

REBECCA MCAFEOOS
CLARK CORPORATE PARTNERS SCHOLARSHIP

JUSTIN LAVIANA MELAMUD
CHI EPSILON OUTSTANDING SENIOR AWARD

MICHAEL WILLIAM MERCADO
WOODWARD-CLYDE CONSULTANTS AWARD

DAVID JOHN MILLER
DEPARTMENT OF CEE OUTSTANDING SENIOR AWARD

RAHUL NAIR
I-95 CORRIDOR COALITION FELLOWSHIP

POORNIMA NATARAJAN
A. JAMES CLARK FELLOWSHIP

SARAH JEAN NESS
ROBERT L. MORRIS AWARD FOR ENVIRONMENTAL LEADERSHIP

ELIZABETH NOLDER
THE COUNTY OF ENGINEERS ASSOCIATION OF MARYLAND ROGER H. WILLARD SCHOLARSHIP IN THE MEMORY OF GEORGE F. NEIMEYER
ADAM G. NORIS
ENGINEERING SCHOLARSHIP

DELLBURT A. KIDWELL, SR. MEMORIAL SCHOLARSHIP

KEVIN OBERLE
A. JAMES CLARK SCHOLARSHIP

JENNIFER OLSZEWSI
DAN WALDO SCHOLARSHIP

SEAN O’NEIL
CIVIL AND ENVIRONMENTAL ENGINEERING FELLOWSHIP

COLLEEN O’SULLIVAN
LEONARD DIGIUILLIAN SCHOLARSHIP

FEDERLINE, INC. STUDENT AWARD

RYAN PAYNE
MILLER AND LONG COMPANY OF MARYLAND, INC. SCHOLARSHIP

LIN QI
A. JAMES CLARK FELLOWSHIP

CHRISTOPHER RAABE
CLARK CONSTRUCTION GROUP, INC. SCHOLARSHIP

MILLER AND LONG COMPANY OF MARYLAND, INC. SCHOLARSHIP

ALEXANDER REIBSTEIN
A. JAMES CLARK SCHOLARSHIP

STEPHANIE REW
BEN DYER CIVIL ENGINEERING CHAIR FELLOWSHIP

DAVID ROBERTS
A. JAMES CLARK SCHOLARSHIP

NANCY ROGA
A. JAMES CLARK SCHOLARSHIP

SWAPNA SHARMA
BECHTEL AWARD

BRIAN SMITH
ABC METRO WASHINGTON SCHOLARSHIP

CARMEN SHANK
A. JAMES CLARK FELLOWSHIP

ANDREW STERSHIC
A. JAMES CLARK SCHOLARSHIP

J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

THEODOR TAN
A. JAMES CLARK SCHOLARSHIP

THE PERRY LAUDENSLAGER MEMORIAL SCHOLARSHIP FUND

ABC METRO WASHINGTON SCHOLARSHIP

JOHN THORNTON
A. JAMES CLARK SCHOLARSHIP

WESLEY TSE
ROBERT L. ANDERSON MEMORIAL SCHOLARSHIP IN CONSTRUCTION MANAGEMENT

CASSANDRA VOSE
A. JAMES CLARK SCHOLARSHIP

ALICIA WALKER
DAVID W. FITZGIBBONS AWARD

THE PERRY LAUDENSLAGER MEMORIAL SCHOLARSHIP FUND

AMBASSADOR SCHOLARSHIP

LEAH WATSON
J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

JD BENDER SCHOLARSHIP

SWE SCHOLARSHIP

NING YANG
I-95 CORRIDOR COALITION FELLOWSHIP

YAO YAO
THE COUNTY OF ENGINEERS ASSOCIATION OF MARYLAND ROGER H. WILLARD SCHOLARSHIP IN THE MEMORY OF JOHN H. MARBURGER, JR.

SEMME YILMA
J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

CLARK CORPORATE PARTNERS SCHOLARSHIP

ABC METRO WASHINGTON SCHOLARSHIP

ANDREW YOUNG
A. JAMES CLARK SCHOLARSHIP

DELLBURT A. KIDWELL, SR. MEMORIAL SCHOLARSHIP

PAUL YU
A. JAMES CLARK SCHOLARSHIP

DILYA YUSUFYANOVA
A. JAMES CLARK FELLOWSHIP

CHANGJIANG ZHOU
A. JAMES CLARK FELLOWSHIP

2007 SCHOLARSHIPS

NATASHA ANDRADE
A. JAMES CLARK FELLOWSHIP

JASON BECKER
ALVIN L. AUBINOE SCHOLARSHIP

WHITING-TURNER SCHOLARSHIP IN CONSTRUCTION MANAGEMENT

JOSH CLAYTON
JOHN F. MILLER SCHOLARSHIP

ALAN COLEMAN
THOMAS AND BARBARA CRANE SCHOLARSHIP IN CIVIL ENGINEERING

JACK DAWSON
CLARK CONSTRUCTION GROUP, INC. SCHOLARSHIP

KEHAT FALIK
DELLBURT A. KIDWELL, SR. MEMORIAL SCHOLARSHIP
ROBIN FISH
TOW H. MOY CIVIL ENGINEERING SCHOLARSHIP

DANE FRIEDMAN
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KATHLEEN GALLOWAY
J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

KRISTEN GILROY
BEN DYER CIVIL ENGINEERING CHAIR FELLOWSHIP

KYLA GREGOIRE
A. JAMES CLARK FELLOWSHIP

LANCE GUTIN
DELLBURT A. KIDWELL, SR. MEMORIAL SCHOLARSHIP

KEVIN HARNISH
J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

THE COUNTY OF ENGINEERS ASSOCIATION OF MARYLAND ROGER H. WILLARD SCHOLARSHIP FUND

JOHN HUANG
CLARK ENTERPRISES SCHOLARSHIP

IARINA, I. MOURKO
THE MARYLAND SECTION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) FOUNDATION SCHOLARSHIP

SAHAND KARIMI
ALVIN L. AUBINOE SCHOLARSHIP

DELLBURT A. KIDWELL, SR. MEMORIAL SCHOLARSHIP

JI KIM
JOHN S. LONG SCHOLARSHIP

JOSEPH KURIA
LEONARD DIGIJULIAN SCHOLARSHIP

DAVID LANDSMAN
RUSSELL B. ALLEN SCHOLARSHIP

CHARLES A. IRISH SCHOLARSHIP IN CIVIL ENGINEERING

PETER LARUE
GEORGE M. KING SCHOLARSHIP

ALEXANDER LE
DAN WALDO SCHOLARSHIP

MINDY LIU
A. JAMES CLARK FELLOWSHIP

CIVIL AND ENVIRONMENTAL ENGINEERING FELLOWSHIP

DANIELLE LOCKMAN
RUSSELL B. ALLEN SCHOLARSHIP

FEDERLINE, INC. STUDENT AWARD

ANTOINE MADILLO
TOW H. MOY CIVIL ENGINEERING SCHOLARSHIP

BENJAMIN MARGOLIS
WHITING-TURNER SCHOLARSHIP IN CONSTRUCTION MANAGEMENT

COLLEEN O’SULLIVAN
TOW H. MOY CIVIL ENGINEERING SCHOLARSHIP

CHRISTOPHER PAYNE
J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

THE COUNTY OF ENGINEERS ASSOCIATION OF MARYLAND ROGER H. WILLARD SCHOLARSHIP IN THE MEMORY OF GEORGE F. NEIMEYER

RYAN PAYNE
RUSSELL B. ALLEN SCHOLARSHIP

CHRISTOPHER RAABE
DELLBURT A. KIDWELL, SR. MEMORIAL SCHOLARSHIP

WHITING-TURNER SCHOLARSHIP IN CONSTRUCTION MANAGEMENT

YALI REN
A. JAMES CLARK FELLOWSHIP

AMJAD SHAHIN
MILLER AND LONG COMPANY OF MARYLAND, INC. SCHOLARSHIP

THE COUNTY OF ENGINEERS ASSOCIATION OF MARYLAND ROGER H. WILLARD SCHOLARSHIP IN THE MEMORY OF WILSON T. BALLARD

HADI SADRSADAT
CIVIL AND ENVIRONMENTAL ENGINEERING FELLOWSHIP

A. JAMES CLARK FELLOWSHIP

SWAPNA SHARMA
EUGENE F. BALDI ENDOWED SCHOLARSHIP

HEATHER SMITH
RUSSELL B. ALLEN SCHOLARSHIP

DAVID W. FITZGIBBONS AWARD

JOHN THORNTON
DAN WALDO SCHOLARSHIP

LEAH WATSON
J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

DELLBURT A. KIDWELL, SR. MEMORIAL SCHOLARSHIP

THOMAS WILD
J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

BEN DYER MEMORIAL SCHOLARSHIP

RENTING XU
A. JAMES CLARK FELLOWSHIP

CIVIL AND ENVIRONMENTAL ENGINEERING FELLOWSHIP

YAO YAO
J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP

ANDREW YOUNG
WHITING-TURNER SCHOLARSHIP IN CONSTRUCTION MANAGEMENT

THE COUNTY OF ENGINEERS ASSOCIATION OF MARYLAND ROGER H. WILLARD SCHOLARSHIP IN THE MEMORY OF JOHN H. MARBURGER, JR.

XIN ZHANG
A. JAMES CLARK FELLOWSHIP

RACHEL ZUCKERMAN
J. SLATER DAVIDSON AND LOUISE DAVIDSON CROSS SCHOLARSHIP
CHAPTER 6

Degrees Granted

PHD’S

SUMMER 2009

GULSAH AKAR
“Analysis of Activity Choice: The Role of Activities, Attributes and Individual Schedules.” Advisor: Dr. Kelly Clifton

YUE LIU
“An Integrated Optimal Control Model for Urban Freeway Corridor Incident Management.” Advisor: Dr. G.L Chang

ALFONSO MEJIA
“The Spatial Distribution of Imperviousness in Watershed Hydrology.” Advisor: Dr. Glenn Moglen

SPRING 2009

KATHERINE GAULKE
“Dynamic Decision Making for Less-Than-Truckload Trucking Operations.” Advisor: Dr. Dr. Ali Haghani

DEYANG HUANG
“Kinetics of Two Heterotrophic Tetrachloroethene-Respiring Populations and Their Effects on Competition with a Dehalococcidioides Strain for Growth Substrates.” Advisor: Dr. A. Davis

SANDRA LABAW
Advisor: Dr. Sherif Aggour

DEEPAK SHRESTHA
“Modeling and Empirical Study of Tailgating Behavior of Drivers.” Advisor: Dr. D. Lovell

MEHMET TATARI
SPRING 2008

MEHMET DEMIRKAN
“Remediation of Petroleum Contaminants from Subsurface Using High Carbon Content Fly Ash.” Advisor: Dr. A. Aydilek

SABRINA GOLDEN
“Immigration and Construction: An Analysis of the Impact of Immigration on Construction Project Cost.” Advisor: Dr. M. Skibniewski

MIN KANG
“Highway Alignment Optimization through Feasibility Gates.” Advisor: Dr. P. Schonfeld

APRIL KUO
“Multilateral Track Capacity Allocation in Forward and Spot Markets of Freight Transport.” Advisor: Dr. E. Miller-Hooks

SAM NEGABAN

PRAWAT SAHAKIJ
“Multiobjective Optimization Models for Distributing Biosolids to Reuse Fields.” Advisor: Dr. S. Gabriel

CHARLES SMITH

FALL 2007

BOO CHUNG
“An Analysis of Success and Failure Factors for ERP Systems in Engineering and Construction Firms.” Advisor: Dr. M. Skibniewski

XIANG FEI
“Robustness Analysis of Sensor Coverage and Location for Real-Time Traffic Estimation and Prediction in Large-Scale Networks.” Advisor: Dr. H. Mahmassani

WON VIANG
“Embedded Sensor System for Construction Materials Tracking by Combination of RF and US Signal.” Advisor: Dr. M. Skibniewski

HYOUNGSOO KIM
“A Simulation Framework for Traffic Information Dissemination in Ubiquitous Vehicular Ad Hoc Networks.” Advisor: Dr. D. Lovell

SUMMER 2007

KLEIO AVRITHI
“Reliability-Based Design of Piping: Internal Pressure, Gravity, Earthquake, Thermal Expansion.” Advisor: Dr. B. Ayyub

ROGER CHEN
“Learning and Risk Perception Mechanisms in Route Choice and Activity Scheduling Dynamics.” Advisor: Dr. H. Mahmassani

HOUNG LI
“Urban Particle and Pollutant Capture Via Stormwater Filter Facilities and the Concomitant Water Quality and Hydrological Benefits.” Advisor: Dr. A. Davis

YING LIU
“An Integrated Optimal Control System for Emergency Evacuation.” Advisor: Dr. G.L. Chang

CHUNG-CHENG LU
“Multi-criterion Dynamic Traffic Assignment Models for Road Pricing Applications with Heterogeneous Users.” Advisor: Dr. H. Mahmassani

ANTONIO RIGATO
“Influence of Angle of Incidence on the Seismic Demands for Inelastic Structures Subjected to Bi-Directional Ground Motions.” Advisor: Dr. R. Medina

NAN ZOU
“A Reliable Travel Time Prediction System with Distributed Detectors.” Advisor: Dr. G.L. Chang

GRADUATES

SPRING 2009

YAHYA ALIABADIZADEH
ANIRUDDHA RAVINDRA RANJEKAR
RESHMI K. COVILAKAM
CAMILO RESTREPO RESTREPO
DAE GUN KIM
MINDY WANG LIU
GREGORY LAWRENCE BROWN
DI DENG
SMIRTHI GUILBERT
NOR ELIEA ELUZIEA JAMIL
XIAOHAN CHEN
RAFAEL ERNESTO O. VALDIVIESO
MONA ASUDEGI
PHILIP SUMNER JONES
HARSHAL ANIL BHANDARI
DEYANG HUANG
SANDRA MARIE LABAW
KATHERINE MARIE GAULKE
MEHMET MARCE GAULKE

FALL 2008

KRISTIN LEIGH GILROY
RYAN JANOCH
STEVEN A. KOLARZ
POORNIMA NATARAJAN
WENXIN QIAO
VINCENT JOSEPH GARDINA
SUHASINI NATARAJAN
NATASHA ALMEIDA ANDRADE
HSIAO-CHI CHEN
SANJEEV KUMAR HOWLADER
STEPHEN SCOTT REID
LAN ZHANG
FALL 2008
ABIOLA OMONIYI ADEBANJO
KRISTA MARIE BAINES
ELYSE KERRY COURTDNEY
JACK AARON DAWSON
THOMAS DANIEL FIRSTBROOK
STEPHEN DANIEL GHENT
LORENA GONZALEZ-MICHEL
ARON KATZ
JORDAN DELBERT LAIR
CONOR JOHN LEWELLYN
GREGORY JOHN LUCAS
BENJAMIN MARGOLIS
LAWRENCE MITROS
CECILIA CLARE NEWMAN
NIKOLAS THOMAS PAKULLA
ROBERT ANDREW PECK
ATREM PETROSSIAN
WILLIAM MICHAEL ROHRER
ROSDOME GUERI SARKISSIAN

CHRISTIAN FUENTES
JOHN HUANG
AYSHA M. KAYANI
JI WON KIM
KIL JOON KIM
THOMAS DAVID LACZO
DAVID CRAIG LANDSMAN
DANIELE MARIE LOCKMAN
CHRISTOPHER JOHN MATTINGLY
GREGG ADAM MEHL
JUSTIN LAVANA MELAMUD
TAYLOR PATRICK MORRIS
SMITA JANAK PATEL
KEVIN PEPE
STEPHEN JOSEPH POLLARD
MATTHEW RICHARD Ptaszynski
NESTOR W. REYES SANTOS
PESACH ARYEH ROTENBERG
AMJAD SHAHIN
SWAPNA SHARMA
JESSICA HEAVNER SLICK
DAVID BENJAMIN SUCHINSKY
RAY M. VICKERY
RACHEL BETH ZUCKERMAN

SUMMER 2008
JOSEPH GARAFALO
DUSTIN CHARLES RAUCH

FALL 2007
FARAZ ARDEKANI
AJIT SINGH BHANDHEL
TIMOTHY BROWN
JARED ISAAC CACCIAPAGLIA
BRIAN ARTHUR DRIBBEN
BRIAN PATRICK GALLAGHER
MARK HUIZER
NICHOLAS B. JOINES
EMILY CLARE KLOC
BRANDON DARON LEWIS
PATRICK JOHN MCGINNIS
IAN ALLAN MCNITT
DAVID JOHN MILLER
SARAH JEAN NESS
STEFAN MATTHEW NIZIOLEK
COLLEEN KATHERINE O’SULLIVAN
CHRISTOPHER L. WATSON

SPRING 2008
EMMANUEL ASADU-BEMPAH
PETA S. BLACK
THALIA DENISE BROWN
JOHN BURNETT
ANDREW HSUAN-AN CHEN
JOSHUA SIDNEY CLAYTON
ALAN CRESSWELL COLEMAN
JAZALYN DENISE DUKES

STEPHEN JOSEPH POLLARD
MATTHEW RICHARD Ptaszynski
NESTOR W. REYES SANTOS
PESACH ARYEH ROTENBERG
AMJAD SHAHIN
SWAPNA SHARMA
JESSICA HEAVNER SLICK
DAVID BENJAMIN SUCHINSKY
RAY M. VICKERY
RACHEL BETH ZUCKERMAN

SUMMER 2008
JOSEPH GARAFALO
DUSTIN CHARLES RAUCH
CHAPTER 7

PhD Student Placements

ALI AL HOSSAIN
Assistant Professor
University of Mansoura
Ph.D. 2000
Advisor: Dimitrios Goulias

GIRUM SIRAW AWOKE
Chief Engineer
MSHA
M.S. non-thesis 2007
Advisor: Dimitrios Goulias

STEWARD BENNIE
Team Chief
Balanced Survivability Assessments
Defense Threat Reduction Agency
Ph.D. 2003
Advisor: Dimitrios Goulias

REGIS CARVALHO
Title
Location
M.S. 2006
Advisor: Charles Schwartz

MELIH DEMIRKAN
Project Associate
Rizzo Associates, Inc
Ph.D. 2008
Advisor: Ahmet Aydilek
SABRINA GOLDEN  
Commander, U.S. Navy; Facilities Engineering and Acquisition Division Director  
U.S. Marines Headquarters, Washington, D.C.  
Ph.D. 2008  
Advisor: Miroslaw Skibniewski

HAEJIN KIM  
Lab Manager  
NRMCA Research Lab  
M.S. (thesis) 2003  
Advisor: Dimitrios Goulias

EMIN KUTAY  
Assistant Professor  
Michigan State University  
Ph.D. 2005  
Advisor: Ahmet Aydilek

W. MCGILL  
Assistant Professor  
Pennsylvania State University  
Ph.D. 2008  
Advisor: Bilal Ayyub

DOINA MORAR  
Engineer  
Michael Baker, Inc.  
M.S. (thesis) 2008  
Advisor: Ahmet Aydilek

N.M. AL-MUTAIRI  
General Director  
Kuwait Institute for Scientific Research  
Ph.D. 1989  
Advisor: Bilal Ayyub

POLLAPAT NITITHAMYONG  
Assistant Professor (Lecturer)  
Glasgow Caledonian University, Glasgow, Scotland, U.K.  
Ph.D. 2004  
Advisor: Miroslaw Skibniewski

SATHAPORN OPASANON  
Assistant Professor  
Department of International Business, Logistics & Transport  
Faculty of Commerce & Accountancy, Thammasat University  
Ph.D. 2004  
Advisor: Elise Miller-Hooks

XICHENG QI  
Chief Engineer  
FHWA  
Ph.D. 2009  
Advisor: Dimitrios Goulias

CHERYL RICHTER  
Research Program Manager, Office of Infrastructure Research and Development  
FHWA Turner-Fairbank Highway Research Center  
McLean, VA  
Ph.D. 2002  
Advisor: Charles Schwartz

JORGE LOYO ROSALES  
Professor  
Instituto Politecnico de Monterey  
Ph.D. 2006  
Advisor: Alba Torrents

BOONG-YEOL RYOO  
Assistant Professor  
Texas A&M University, College Station, TX  
Ph.D. (post doc) 2004  
Advisor: Miroslaw Skibniewski

X. TAO  
District of Columbia Dept. of Transportation  
Washington, D.C.  
Ph.D. 2003  
Advisor: Paul Schonfeld

SUSHANT UPADHYAYA  
Project Supervisor  
Location Consulting Firm  
Ph.D. 2008  
Advisor: Dimitrios Goulias
2008 CONTRACTS IN FORCE


Energetically Autonomous Tactical Robot (EATR) [Robotic Technology, Inc.] 09/01/2008-12/30/2008. [Ayyub, Bilal]


Integration of Off-ramp and Arterial Signal Controls to Minimize Congestion [STMD-Maryland State Highway Administration] 05/01/2008-08/31/2009. [Chang, Gang-Len]


W.O. #86: Development and operations of a Travel Time Prediction System (Phase II) [STMD-Maryland State Highway Administration] 01/01/2008-11/01/2009. [Chang, Gang-Len]


Mid-Atlantic Universities Transportation Center [Pennsylvania State University] 07/01/2007-09/30/2011. [Chang, Gang-Len: Co-PI]


Tier-1 University Transportation Center [U.S. Department of Transportation-Other] 10/01/2006-09/30/2011. [Chang, Gang-Len: Co-PI]


Subcontract to California Institute for Telecommunications and Information Technology [University of California – Irvine] 10/01/2003-09/30/2008. [Chang, Peter]

Mid-Atlantic Universities Transportation Center [Pennsylvania State University] 07/01/2007-09/30/2011. [Cirillo, Cinzia: Co-PI]

Feasibility Study Guidelines for Public Private Partnership Projects [University of Alabama Huntsville] 09/30/2008-05/31/2010. [Cui, Qingbin]

Evaluation of Public Private Partnership Proposals [University of Alabama Huntsville] 06/02/2008-01/31/2009. [Cui, Qingbin]


Research and Develop Optimum Mix for Bioretention Soil Media [STMD-Maryland Department of Transportation] 07/01/2008-08/31/2010. [Davis, Allen]

Evaluating BaySaver Technologies for Improvement of Urban Stormwater Runoff Quality [BaySaver Technologies] 06/01/2008-12/31/2008. [Davis, Allen]


Qualifying Design of Maryland Signal Poles under Different Loading Conditions [STMD-Maryland State Highway Administration] 01/04/2008-01/31/2009. [Fu, Chung]

Cost Allocation Study for the Maryland Transportation Authority [STMD-Maryland Transportation Authority] 09/01/2005-03/31/2008. [Fu, Chung]


Post Doc Cooperation between NTNU (Norwegian University of Science and Technology, Trondheim, Norway) and UMD Sponsored by the RAMONA Project [Norwegian University of Science and Technology] 08/18/2008-05/31/2009. [Gabriel, Steven]


Mid-Atlantic Universities Transportation Center [Pennsylvania State University] 07/01/2007-09/30/2011. [Haghani, Ali; Co-PI]


On-site Research Support for Maryland Transportation Authority [STMD-Maryland Transportation Authority] 03/07/2007-06/30/2009. [Haghani, Ali]


Tier-1 University Transportation Center [U.S. Department of Transportation-Other] 10/01/2006-09/30/2011. [Haghani, Ali]


Undergraduate Student Internship at MTA [STMD-Maryland Transportation Authority] 05/01/2006-12/31/2008. [Haghani, Ali]


Existing Right-of-Way Plats Database Application [STMD-Maryland State Highway Administration] 09/17/2008-09/30/2009. [Hamedi, Masoud; Co-PI]


MOU between MD DPSCS/ITCD, DPP and CapWIN (CEE/CATT) on Data Sharing [STMD-Department of Public Safety and Correctional Services] 09/08/2008-09/07/2013. [Henry, William]

MOU between MD MVA and CapWIN (CEE/CATT) (VA) [STMD-Maryland Department of Transportation] 08/25/2008-08/25/2013. [Henry, William]

MOU between MD MVA and CapWIN (CEE/CATT) (DC) [STMD-Maryland Department of Transportation] 08/25/2008-08/25/2013. [Henry, William]


Non-disclosure from Battelle [Battelle Columbus Laboratories] 08/22/2008-08/21/2013. [Jacobs, Thomas]

Common Field Reporting System (CQRS) – New Work Order-Phase 3, 4, 5 [STMD-Maryland State Highway Administration] 07/01/2007-12/31/2008. [Jacobs, Thomas]


Models and Analysis to Support Airport Congestion Management [U.S. Department of Transportation-Federal Aviation Agency] 01/29/2008-03/30/2010. [Lovell, David; Co-PI]


Technical Assistance in the Development of Nutrient TMDLs for Maryland’s Impaired Waters [STMD-Maryland Department of the Environment] 04/01/2008-06/30/2009. [McCuen, Richard; Co-PI]


Tier-1 University Transportation Center [U.S. Department of Transportation-Other] 10/01/2006-09/30/2011 [Miller-Hooks, Elise: Co-PI]

SpeedInfo Data Sharing Agreement [SpeedInfo] 04/01/2008-04/01/2009. [Pack, Michael]


W.O. #75 Virtual Weigh Station [STMD-Maryland State Highway Administration] 01/01/2007-12/31/2009. [Pansare, Manoj]

A Multi-objective Bi-level Approach to Highway Alignment Optimization [Amar Transportation Research & Consulting, Inc.] 01/01/2008-12/31/2008. [Schonfeld, Paul]

Mid-Atlantic Universities Transportation Center [Pennsylvania State University] 07/01/2007-09/30/2011. [Schonfeld, Paul: Co-PI]


Tier-1 University Transportation Center [U.S. Department of Transportation-Other] 10/01/2006-09/30/2011. [Schonfeld, Paul: Co-PI]

Center for Intermodal Freight Transportation Mobility Center [STMD-Maryland State Highway Administration] 12/05/2005-06/30/2009. [Schonfeld, Paul]


Cost Allocation Study for the Maryland Transportation Authority [STMD-Maryland Transportation Authority] 09/01/2005-03/31/2008. [Schwartz, Charles: Co-PI]


Investigating the Environmental Chemistry Fate and Transport of Agrochemicals and Other Pollutants [USDA-ARS (Agricultural Research Service)] 09/11/2008-07/31/2013. [Torrents, Alba]

Assessing the Fate of POPs in Biosolids and Effects in Biosolid Microbial Communities [District of Columbia Water and Sewer Authority] 02/12/2008-03/30/2009. [Torrents, Alba]

Assessing the Feasibility of Sludge Composting with Ag-Bags – Di Deng [District of Columbia Water and Sewer Authority] 02/12/2008-03/30/2009. [Torrents, Alba]

Assessing the Fate of Triclosan and Triclocarban in a WWTP with Emphasis on Sludge Processing and Land Application for Biosolids [District of Columbia Water and Sewer Authority] 10/01/2007-03/30/2009. [Torrents, Alba]

Environmental Fate of Brominated Flame Retardants in Biosolids Land Application Programs [District of Columbia Water and Sewer Authority] 10/01/2007-03/30/2009. [Torrents, Alba]
Assessing the Fate of Triclosan and Triclocarban in a WWTP with Emphasis on Sludge Processing and Land Application for Biosolids [District of Columbia Water and Sewer Authority] 10/01/2006-07/31/2008. [Torrents, Alba]

Environmental Fate of Brominated Flame Retardants in Biosolids Land Application Programs [District of Columbia Water and Sewer Authority] 10/01/2006-07/31/2008. [Torrents, Alba]


2007 CONTRACTS IN FORCE:

Updating Policy and Procedure Memorandums (PPMs) [STMD-MD/DOT/SHA] 12/05/2007-11/30/2008. [Aggour, Mohamed]


Characterization of Damage and Dev. of ACC. Test Method for DEF [National Science Foundation] 05/01/2003-10/31/2008. [Amde, Amde]

NDA with Sensis Corporation [Corporations-Sensis Corporation] 06/22/2007-06/21/2012. [Austin, Mark]


Agreement to Disclose Confidential Information [Corporations-Sensis Corporation] 03/02/2006-12/31/2007. [Austin, Mark]

Agreement to Disclose Company and Univ. Confidential Information [Corporations-BAE SYSTEMS North America] 06/01/2004-06/01/2009. [Austin, Mark]


Laboratory and Field Evaluation of Microbiological [National Science Foundation] 10/1/2006-10/31/2009. [Aydilek, Ahmet]


DHS Center of Excellence on Behavioral and Social Aspects of Terrorism and Counter-terrorism, 2005-09 [Department of Homeland Security] 01/30/05-01/30/09. [Ayub, Bilal]


Global Network for Disaster-related Project Management Research and Education [Institutes-Project Management Institute] 07/19/2007-07/18/2008. [Cable, John]

Developing Project Schedules [STMD-MD/SHA] 05/16/2007-06/30/2008. [Brubaker, Kaye: Co-PI]


Collaborative Research: Characterizing Land Surface Memory to Enhance Climate Prediction [National Science Foundation] 07/01/2003-06/30/2007. [Brubaker, Kaye]


Mid-Atlantic Universities Transportation Center [Universities-Penn State] 07/01/2007-09/30/2011. [Chang, Gang-Len: Co-PI]


Chart Simulator Phase III-i270 and Development of Real-time System Controls [STMD-MDOT/SHA] 03/01/2001-08/01/2008. [Chang, Gang-Len]

NDA and Teaming Agreement w/Genex Systems, LLC and UMD [Corporations-Genex Systems, LLC] 06/20/2007-06/19/2008. [Chang, Peter]

Earthquake Engineering and Structural Control Experiment [National Science Foundation-1637/Engineering] 08/15/2005-07/31/2007. [Chang, Peter]

A Peer-to-Peer Mentoring Approach for Sensor Technology [National Science Foundation] 08/01/2004-01/31/2007. [Chang, Peter]

Subcontract to California Institute for Telecommunications [Universities-California, Irvine] 10/01/2003-09/30/2008. [Chang, Peter]

Geopolymer Column Wrapping [STMD-MDOT/SHA] 07/01/2003-06/30/2008. [Chang, Peter]


Mid-Atlantic Universities Transportation Center [Universities-Penn State] 07/01/2007-09/30/2011. [Cirillo, Cinzia: Co-Pi]

Development of Technologies for Heavy Metal Remediation of Mine Tailings [National Science Foundation] 08/01/2004-07/31/2007. [Davis, Allen]


Qualifying Design of Maryland Signal Poles under Different Loading Conditions [STMD-MDOT/SHA] 01/04/2008-03/31/2009. [Fu, Chung]


Cost Allocation Study for the Maryland Transportation [STMD-MDOT/Other-MD Transportation Authority] 09/01/2005-03/31/2008. [Fu, Chung]

Department of interior Green Roof Monitoring [Corporations – Roofscape, Inc.] 03/20/2006-03/19/2008. [Davis, Allen]


Unit Process Modeling of Infiltration-based Storm Water Management [Corporations-Tate, Inc.] 01/15/2006-01/14/2009. [Davis, Allen]

Transport and Capture of Pathogens from Stormwater Runoff using Retention [Universities-New Hampshire (generic)] 09/01/2005-08/31/2008. [Davis, Allen]


Development of Technologies for Heavy Metal Remediation of Mine Tailings [National Science Foundation] 08/01/2004-07/31/2007. [Davis, Allen]


Computer Programs for Bridge Design and Analysis [STMD-MDOT/SHA] 09/18/2000-07/02/2008. [Fu, Chung]


Statistical Modeling of Biosolids Odor Levels [Local Government-D.C. Water and Sewer Authority (DCWASA)] 10/01/2007-06/30/2008. [Gabriel, Steven]

Study of Energy Markets, Methods, and International Conference, Co-PI with Christian von Hirschhausen (Germany), David Fuller (Canada) [Alexander von Humboldt Foundation, TransCoop Program ($42,800, starting summer 2007)] 07/01/2007-12/31/2008. [Goulias, Dimitrios]


Honorarium: Honorarium for Travel Expenses at the 2007 ICAR Symposium Invited Talk [NSGA]- [Goulias, Dimitrios]

Honorarium: Honorarium for The 1st international Conference on Recent Advances in Concrete Technology [NECSA]- [Goulias, Dimitrios]


Mutual Confidential Non-disclosure Agreement


MOU with the Maryland MVA [STMD-State of MD Other-Motor Vehicle Administration] 03/13/2007-03/12/2017. [Jacobs, Thomas]

Course 137020 for SAIC [Corporations-SAIC (Science Applications International)] 08/04/2006-08/31/2007. [Jacobs, Thomas]


Models and Analysis to Support Airport Congestion Management [DOT-FAA] 02/01/2008-06/30/2009. [Lovell, David: Co-PI]


Tier-1 University Transportation Center on Integrated Transportation Systems Management ($3M from USDOT, $3M SHA...) (administrative work begun only) [United Stated Department of Transportation] 9/2007-9/2010. [Miller-Hooks, Elise: Co-PI]

Mid-Atlantic University Transportation Center. Subcontract with Penn State ($609,450 share plus matching from SHA...) administrative work begun only) [United States Department of Transportation] 7/2007-7/2010. [Miller-Hooks, Elise]


Quantifying the Cost-Effectiveness of Freeway Service Patrol Programs, WO #82 I-95 Corridor Coalition Service Patrols Phase II [STMD-MDOT/SHA] 02/01/2007-06/30/2008. [Miller-Hooks, Elise]


REORIENT: Implementing Change in the European Railway Area (828,600 euros, final payment will determine actual $ received) [UMF-European Commission] 06/01/2005-05/31/2007. [Miller-Hooks, Elise]


Transceiver and Network Technology Developments for Directional Hybrid Wireless Networks [National Science Foundation] 05/01/2007-04/30/2008. [Milner, Stuart: Co-PI]


Broadband Optical/RF Wireless Networks with Topology and Diversity Control [National Science Foundation] 09/01/2004-08/31/2008. [Milner, Stuart]


Scalable Multilayer Control of Joint Battlespace Networks [DOD-AFOSR. Bolling] 05/01/2002-03/31/2008. [Milner, Stuart]

Scalable Multilayer Control of Joint Battlespace Networks [workshop on complex systems] [STMD-WAIVER Acct.] 05/01/2002-03/31/2008. [Milner, Stuart]


Reality Check Plus-envisioning a Sustainable Maryland [EPA-Other] 05/01/2007-04/30/2010. [Moglen, Glenn: Co-PI]

Developing a Decision Support System for the DelMarVa [STMD-University of Maryland/ Maryland Sea Grant College] 02/01/2007-01/31/2009. [Moglen, Glenn]


USI Grant for Continuation of RFITs W.O. # 67 [-] 01/31/2007. [Pack, Michael: Co-PI]


Mid-Atlantic Universities Transportation Center [Universities-Penn State] 07/01/2007-09/30/2011. [Schonfeld, Paul: Co-PI]


Tier-1 University Transportation Center [U.S. DOT Other-RITA] 10/01/2006-09/30/2011. [Schonfeld, Paul: Co-PI]


Project Director: Intermodal Freight Transportation Center [U.S. DOT] 2006-2009. [Schonfeld, Paul]


Cost Allocation Study for the Maryland Transportation Authority [STMD-MDOT/Other-MD Transportation Authority] 09/01/2005-03/31/2008. [Schwartz, Charles: Co-PI]


Transport and Capture of Pathogens from Stormwater Runoff using Retention [Universities-New Hampshire (Generic)] 09/01/2005-08/31/2008. [Seagren, Eric: Co-PI]

Subsurface Heterogeneities, Interfaces & Biodegradation [National Science Foundation-FastLane] 06/01/2001-11/30/2007. [Seagren, Eric]


LTAP 2007 (Local Technical Assistance Program) [STMD-MDOT/SHA, FHWA] 01/01/2007-12/31/2007. [Stellfox, Edwin]


MDA Congestion Management [STMD-MDOT/Other-Maryland Transportation Authority] 06/01/2007-06/30/2008. [Tarnoff, Philip]

W.O. #85 Coalition Vehicle Probe Data [STMD-MDOT/SHA] 05/01/2007-12/31/2011. [Tarnoff, Philip]


Tier-1 University Transportation Center [DOT-Transportation Other-RITA] 10/01/2006-09/30/2011. [Tarnoff, Philip: co-pi]


W.O. #73 integrated Corridor Management Subrecipient [STMD-MDOT/SHA] 01/01/2006-06/30/2008. [Tarnoff, Philip]


Agreement with SAIC for DTFH61-02-R-00086 [Corporations-SAIC] 03/21/2003-08/30/2007. [Tarnoff, Philip]


Technical Support for the MD Development and Operation [STMD-MDOT/SHA] 01/21/1998-07/01/2012. [Tarnoff, Philip]

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2009 PUBLICATIONS

1. FULL BOOKS (PUBLISHED, EDITED, AUTHORED, OR CO-AUTHORED)


2. CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED, OR CO-AUTHORED)


3. REFEREED ARTICLES IN ARCHIVAL JOURNALS


4. ARTICLES IN CONFERENCE PROCEEDINGS


Sharma*, D., Cui, Q., Baldwin, R. and Arkle, D. February 10-12, 2009. “Big or Small, Does Warranty Contracting Provide Equal Opportunities to All?” 1st International Conference on Transportation Construction Management, Orlando, FL.


5. PAPERS PRESENTED AT CONFERENCES, SEMINARS, AND SYMPOSIUM


Davis, A.P. February 6, 2009. “Creating ‘Green’ Stormwater,” invited talk, Department of Civil Engineering, University of Minnesota, Minneapolis, MN.

Zhang, Y. and Fu, C.C. “Piezo Paint-based Smart Tape Sensor for Bridge Prognosis,” to IABMAS 2010.


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6. OTHER / NON-REFEREED WORKS PUBLISHED


2008 PUBLICATIONS

1. FULL BOOKS (PUBLISHED, EDITED, AUTHORED, OR CO-AUTHORED)

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6. OTHER / NON-REFEREED WORKS PUBLISHED


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